

L Number	Hits	Search Text	DB	Time stamp
-	1	("20030039087").PN.	USPAT; US-PGPUB	2003/05/20 14:39
-	1	("5849135").PN.	USPAT; US-PGPUB	2003/05/06 18:24
-	4651	vacuum near3 chuck	USPAT; US-PGPUB	2003/05/06 18:25
-	0	vacuum near3 chuck3 and (substrate or wafer)	USPAT; US-PGPUB	2003/05/06 18:25
-	3956	(vacuum near3 chuck) and (substrate or wafer)	USPAT; US-PGPUB	2003/05/06 18:27
-	3233	(vacuum near chuck) and (substrate or wafer)	USPAT; US-PGPUB	2003/05/06 18:27
-	2118	(vacuum near chuck) near7 (substrate or wafer)	USPAT; US-PGPUB	2003/05/06 18:29
-	1883	((vacuum near chuck) near7 (substrate or wafer)) and @ad<20010827	USPAT; US-PGPUB	2003/05/07 09:17
-	1467	((vacuum near chuck) near7 (substrate or wafer)) and @ad<20010827) and partic\$5	USPAT; US-PGPUB	2003/05/06 19:17
-	246	((vacuum near chuck) near7 (substrate or wafer)) and @ad<20010827) and partic\$5) and actuator	USPAT; US-PGPUB	2003/05/07 11:29
-	0	((vacuum near chuck) near7 (substrate or wafer)) and @ad<20010827) and partic\$5) and (impulse near7 actuator)	USPAT; US-PGPUB	2003/05/06 18:57
-	53	((vacuum near chuck) near7 (substrate or wafer)) and @ad<20010827) and partic\$5) and impulse	USPAT; US-PGPUB	2003/05/06 18:58
-	39909	impulse and partic\$5	USPAT; US-PGPUB	2003/05/06 19:18
-	411	impulse and (remov\$4 near7 partic\$5) and (substrate or wafer)	USPAT; US-PGPUB	2003/05/06 19:20
-	352	(impulse and (remov\$4 near7 partic\$5) and (substrate or wafer)) and @ad<20010827	USPAT; US-PGPUB	2003/05/06 19:28
-	1035	(134/1.1,1.2,1.3).ccls.	USPAT; US-PGPUB	2003/05/06 19:29
-	7	((134/1.1,1.2,1.3).ccls.) and impulse	USPAT; US-PGPUB	2003/05/07 08:22
-	200	((134/1.1,1.2,1.3).ccls.) and (vibrat\$3 or agita\$4)	USPAT; US-PGPUB	2003/05/07 09:00
-	200	((134/1.1,1.2,1.3).ccls.) and (vibrat\$3 or agita\$4)	USPAT; US-PGPUB	2003/05/07 09:01
-	18	((134/1.1,1.2,1.3).ccls.) and (vacuum near chuck)	USPAT; US-PGPUB	2003/05/07 09:01
-	1883	((vacuum near chuck) near7 (substrate or wafer)) and @ad<20010827	USPAT; US-PGPUB	2003/05/07 09:33
-	1295	((vacuum near chuck) near3 (substrate or wafer)) and @ad<20010827	USPAT; US-PGPUB	2003/05/07 09:46
-	118	((vacuum near chuck) near3 (substrate or wafer)) and @ad<20010827 ) and (spherical or hemispherical)	USPAT; US-PGPUB	2003/05/07 10:36
-	264	156/345.51.ccls.	USPAT; US-PGPUB	2003/05/07 10:36
-	24	156/345.51.ccls. and (vacuum near chuck)	USPAT; US-PGPUB	2003/05/07 10:37
-	303	((vacuum near chuck) near7 (substrate or wafer)) and @ad<20010827) and partic\$5) and (vibrat\$4 or agitat\$4)	USPAT; US-PGPUB	2003/05/07 11:31
-	303	((vacuum near chuck) near7 (substrate or wafer)) and @ad<20010827) and partic\$5) and (vibrat\$4 or agitat\$4)) not 156/345.51.ccls.	USPAT; US-PGPUB	2003/05/07 11:34
-	0	((vacuum near chuck) near7 (substrate or wafer)) and @ad<20010827) and partic\$5) and (vibrat\$4 or agitat\$4)) not 156/345.51.ccls.) and (hemispherical near3 reinforcement)	USPAT; US-PGPUB	2003/05/07 11:35

-	0	(((((vacuum near chuck) near7 (substrate or wafer)) and @ad<20010827) and partic\$5) and (vibrat\$4 or agitat\$4)) not 156/345.51.ccls.) and (hemispherical near7 reinforcement)	USPAT; US-PGPUB	2003/05/07 11:36
-	8	(vacuum near chuck) and (hemispherical near7 reinforcement)	USPAT; US-PGPUB	2003/05/07 14:50
-	3648	h011021/\$.ipc. and ((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5)	JPO; DERWENT	2003/05/07 14:57
-	1233	h011021/\$.ipc. and ((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near4 (substrate or wafer))	JPO; DERWENT	2003/05/07 15:28
-	55	c23c016/\$.ipc. and ((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near4 (substrate or wafer))	JPO; DERWENT	2003/05/07 14:58
-	1244	(h011021/\$.ipc. and ((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near4 (substrate or wafer))) or (c23c016/\$.ipc. and ((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near4 (substrate or wafer)))	JPO; DERWENT	2003/05/07 14:59
-	2123	h011021/\$.ipc. and ((vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer))	JPO; DERWENT	2003/05/07 15:29
-	39	((h011021/\$.ipc. and ((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near4 (substrate or wafer))) or (c23c016/\$.ipc. and ((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near4 (substrate or wafer)))) and (h011021/\$.ipc. and ((vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer)))	JPO; DERWENT	2003/05/07 15:05
-	114	c23c016/\$.ipc. and ((vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer))	JPO; DERWENT	2003/05/07 15:27
-	0	(c23c016/\$.ipc. and ((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near4 (substrate or wafer))) and (c23c016/\$.ipc. and ((vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer)))	JPO; DERWENT	2003/05/07 15:27
-	5512	((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near4 (substrate or wafer))	USPAT; US-PGPUB	2003/05/07 15:30
-	7534	((vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer))	JPO; DERWENT	2003/05/07 15:31
-	0	((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near4 (substrate or wafer))) and ((vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer)))	JPO; DERWENT	2003/05/07 15:29
-	6530	(remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near7 (substrate or wafer)	USPAT; US-PGPUB	2003/05/07 15:34
-	7534	(vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer)	JPO; DERWENT	2003/05/07 15:33
-	11947	(vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer)	USPAT; US-PGPUB	2003/05/07 15:35
-	924	((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near7 (substrate or wafer) ) and ((vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer))	USPAT; US-PGPUB	2003/05/07 15:35
-	793	((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near7 (substrate or wafer) ) and ((vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer))) and @ad<20010827	USPAT; US-PGPUB	2003/05/07 18:10
-	19	(((((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near7 (substrate or wafer) ) and ((vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer)))) and @ad<20010827) and vacuum) and reinforc\$5	USPAT; US-PGPUB	2003/05/07 15:54
-	1	5625249.pn.	USPAT; US-PGPUB	2003/05/07 15:54

-	411	(((((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near7 (substrate or wafer) ) and ((vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer))) and @ad<20010827) and vacuum	USPAT; US-PGPUB	2003/05/07 18:07
-	195	(((((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near7 (substrate or wafer) ) and ((vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer))) and @ad<20010827) and 134/\$.ccls.	USPAT; US-PGPUB	2003/05/07 18:07
-	127	(((((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near7 (substrate or wafer) ) and ((vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer))) and @ad<20010827) and 134/\$.ccls. ) not (((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near7 (substrate or wafer) ) and ((vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer))) and @ad<20010827) and vacuum	USPAT; US-PGPUB	2003/05/07 18:09
-	0	(((((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near7 (substrate or wafer) ) and ((vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer))) and @ad<20010827) and 134/\$.ccls. ) not (((remov\$4 or eliminat\$4 or clean\$4) near7 partic\$5 near7 (substrate or wafer) ) and ((vibrat\$4 or agitat\$4 or actuat\$3) near7 (substrate or wafer))) and @ad<20010827) and vacuum	USPAT; US-PGPUB	2003/05/07 18:09
-	789	118/728.ccls. and vacuum	USPAT; US-PGPUB	2003/05/07 18:10
-	739	(118/728.ccls. and vacuum) and @ad<20010827	USPAT; US-PGPUB	2003/05/07 18:22
-	148	((118/728.ccls. and vacuum) and @ad<20010827) and (vacuum near4 (chuck or hold or held))	USPAT; US-PGPUB	2003/05/07 18:46
-	197	(piston near7 (vibrat\$4 or agitat\$4)) and impulse	USPAT; US-PGPUB	2003/05/07 18:49
-	147	(piston near4 (vibrat\$4 or agitat\$4)) and impulse	USPAT; US-PGPUB	2003/05/07 18:51
-	117	((piston near7 (vibrat\$4 or agitat\$4)) and impulse) and fluid	USPAT; US-PGPUB	2003/05/12 17:09
-	6	(US-6514121-\$ or US-6555276-\$).did. or (US-20030057513-\$ or US-20020061720-\$ or US-20020006876-\$ or US-20010015314-\$).did.	USPAT; US-PGPUB	2003/05/12 15:13
-	1843	(susceptor or substrate or wafer) near7 rib	USPAT; US-PGPUB	2003/05/12 17:15
-	16	(susceptor or substrate or wafer) near7 ( reinforcement adj rib)	USPAT; US-PGPUB	2003/05/12 17:11
-	1605	((susceptor or substrate or wafer) near7 rib ) and @ad<20010827	USPAT; US-PGPUB	2003/05/12 17:17
-	1170	118/728.ccls.	USPAT; US-PGPUB	2003/05/12 17:18
-	264	156/345.51.ccls.	USPAT; US-PGPUB	2003/05/12 17:18
-	1264	118/728.ccls. or 156/345.51.ccls.	USPAT; US-PGPUB	2003/05/12 17:18
-	12	((susceptor or substrate or wafer) near7 rib ) and @ad<20010827) and (118/728.ccls. or 156/345.51.ccls.)	USPAT; US-PGPUB	2003/05/12 17:19
-	721	118/52.ccls.	USPAT; US-PGPUB	2003/05/20 17:54
-	228	118/52.ccls. and (vacuum near7 (substrate or wafer))	USPAT; US-PGPUB	2003/05/20 16:14
-	466	118/728.ccls. and (vacuum near7 (substrate or wafer))	USPAT; US-PGPUB	2003/05/20 18:02
-	460	(118/728.ccls. and (vacuum near7 (substrate or wafer))) not (118/52.ccls. and (vacuum near7 (substrate or wafer)))	USPAT; US-PGPUB	2003/05/20 17:56

-	433	((118/728.ccls. and (vacuum near7 (substrate or wafer))) not (118/52.ccls. and (vacuum near7 (substrate or wafer)))) and @ad<20010827	USPAT; US-PGPUB	2003/05/20 17:56
-	319	((118/728.ccls. and (vacuum near7 (substrate or wafer))) not (118/52.ccls. and (vacuum near7 (substrate or wafer)))) and @ad<20010827) and (vacuum near3 (substrate or wafer))	USPAT; US-PGPUB	2003/05/20 18:03
-	1	5849135.pn.	USPAT; US-PGPUB	2003/05/21 09:22